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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/917,655	07/31/2001	Peter Boekstegers	07883.0046	1083		
7	590 08/07/2003					
Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P. 1300 I Street, N.W.			EXAMINER			
			THANH, QUANG D			
Washington, DC 20005-3315			ART UNIT	PAPER NUMBER		
			3764	/ )		
			DATE MAILED: 08/07/2003	12		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/917,655	BOEKSTEGERS ET AL.	
Offic Action Summary	Examiner	Art Unit	
	Quang D. Thanh	3764	
The MAILING DATE of this communication of the Period for Reply	cation appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION.  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30)  - If NO period for reply is specified above, the maximum states are reply within the set or extended period for reply and the Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).  Status	CATION. of 37 CFR 1.136(a). In no event, however, may a reunication. ) days, a reply within the statutory minimum of thirt tutory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) file	ed on <u>24 July 2003</u> .		
2a) This action is FINAL.	2b)⊠ This action is non-final.		
3) Since this application is in condition			
closed in accordance with the practi Disposition of Claims	ce under <i>Ex parte Quayle</i> , 1955 C.I	J. 11, <del>4</del> 55 O.G. 215.	
4) Claim(s) 1,3-8,10-22 and 24-35 is/ai	re pending in the application.		
4a) Of the above claim(s) is/ar	e withdrawn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) 1.3-8,10-22 and 24-35 is/ard	e rejected.		
7) Claim(s) is/are objected to.	•		
8) Claim(s) are subject to restrict	tion and/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the			
10) The drawing(s) filed on is/are:			
Applicant may not request that any objection	****		
11) The proposed drawing correction filed		isapproved by the Examiner.	
If approved, corrected drawings are red			
12) The oath or declaration is objected to	by the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120	San	0.440(-) (-)	
13) Acknowledgment is made of a claim	for foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	da a cara da bassa bassa sasastand		
	documents have been received.	PK N	
•	documents have been received in A		
<ul> <li>3. Copies of the certified copies of application from the Internation</li> <li>* See the attached detailed Office action</li> </ul>	ational Bureau (PCT Rule 17.2(a)).	-	

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

Attachment(s)

14) △ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

6) Other:

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)

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### **DETAILED ACTION**

### Terminal Disclaimer

1. The terminal disclaimer filed on 06/24/2003 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date of U.S. Patent No. 6,290,728 B1, has been reviewed and is accepted. The terminal disclaimer has been recorded.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 3-8, 10-22, 24-35 rejected under 35 U.S.C. 103(a) as being unpatentable over Tweden et al. (6,406,488) in view of Eno et al. (6,409,697 B2).
- 4. Re claims 1 and 29, Tweden discloses a device and a method of providing blood flow directly from a left ventricle of a heart chamber to a coronary artery (see abstract), comprising: providing a stent 10 (portions 13 and 14) (fig. 1) having sufficient strength to resist deformation from contractile cardiac forces (col. 2, lines 49-51) and flexibility in a compressed and a deployed state to permit passage to a myocardial site and remain patent when implanted (figs. 1-6, col. 3, lines 23-38); the stent includes a flared end 12 (fig. 1), and a covering 30 on an inner surface portion and outer surface portion of the stent (fig. 2, col. 4, lines 12-18); delivering the stent percutaneously in a compressed state into a passage at the myocardial site (col. 3, lines 34-36); and expanding the stent

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to deploy it in the passage (fig. 5-6, col. 3, lines 34-36) such that the flared end 12 seats around an end of the passage (fig. 1), except that Tweden's stent is an L-shaped and is not substantially straight. However, Eno teaches a transmyocardial implant 10 (fig. 1) comprising a straight elongate cylindrical tube or conduit 11 having a flared end 22/12. Eno also suggests that while the tube 11 is preferably straight, the tube 11 could be bent so that the direction of blood from end 12 is not perpendicular to the arterial blood flow direction A (col. 5, lines 4-7). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to substitute the L-shaped stent of Tweden with the straight stent of Eno, as suggested and taught by Eno. since both are well known in the art as equivalent means for medical implant stent. Moreover, it would have been an obvious matter of design choice to modify the Tweden's device, to have a substantially straight stent, since applicant has not disclosed that having the substantially straight stent solves any stated problem or is for any particular purpose and it appears that the device would perform equally well with either designs. Furthermore, absent a teaching as to criticality that the stent is substantially straight, this particular arrangement is deemed to have been known by those skilled in the art since the instant specification and evidence of record fail to attribute any significance (novel or unexpected results) to a particular arrangement. In re Kuhle, 526 F.2d 553,555,188 USPQ 7, 9 (CCPA 1975).

5. Re claims 3-4, 10-12, 15-16, 24-26, and 30-31 Tweden discloses (claims 3 and 30) the covering 30 includes expanded PTFE material (col. 5, lines 2-3); (claims 4 and

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31) wherein the covering covers substantially all of an inner and outer surface of the stent (col. 4, lines 50-54, fig. 2); (claims 10 and 24) the flared end 12 is placed in the passage to face the coronary vessel (fig.1); (claims 11-12 and 25-26) the coronary vessel is a coronary artery 82 and the heart chamber is a left ventricle 83 (fig. 1); (claims 15-16) delivering the stent includes delivering the stent percutaneously in a compressed state into a passage at the myocardial site (col. 3, lines 34-36).

- 6. Re claims 5-8,17-22, and 32-35, Tweden also discloses the stent including a hemocompatible and anti-thrombogenic agent such as heparin coating over the covering on the inner surface of the stent (col. 4, lines 28-31).
- 7. Re claims 13-14 and 27-28, with respect to the limitation "partial blockage", Tweden discloses the myocardial site is distal to a coronary blockage 81 (fig. 1), which appears to be a partial blockage. Alternatively, if blockage 81 is not viewed to be a partial blockage then it would be obvious for a coronary blockage to be either total or partial blockage and in either case the device and method taught by Tweden still apply.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang D. Thanh whose telephone number is (703) 605-4354. The examiner can normally be reached on Monday-Thursday & alternate Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Lucchesi can be reached on (703) 308-2698. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1148.

Quang D. Thanh Patent Examiner Art Unit 3764

QT)

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